## **LISTING OF THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A respirator comprising a respirator facepiece,

a first sealing means configured to form a seal on the face of a user surrounding an

area of the user's face comprising the eyes, mouth and nose so as to define a first cavity

between bounded by the first sealing means, the respirator facepiece and the said area of the

user's face,

a second sealing means suitable for forming a seal on the face of the user that forms

an outer seal around the first sealing means so as to define a second cavity, the second cavity

being formed between the second sealing means, the first sealing means, and a portion of the

face of the user and optionally the respirator facepiece, wherein the first and second cavities

define separate, non-communicating cavities,

a respirator air inlet for conducting inhaling air to the first cavity,

a respirator air outlet for conducting exhaled air from the first cavity, and

an air pressure supply means suitable for supplying pressurised air to the second

cavity in order to maintain a positive pressure in the second cavity,

whereby in normal operation air is inhaled and exhaled solely through the first cavity

and so substantially no air pressure differential exists between the ambient atmosphere and

the second cavity which will allow ambient air to enter the second cavity.

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2. (original) A respirator according to claim 1 further comprising at least one

eyepiece and a means for directing inhaling air over the at least one eyepiece.

3. (original) A respirator according to claim 2 further wherein the means for

directing inhaling air over the at least one eyepiece is capable of diverting some of the

inhaling air directly to the oronasal region of the user.

4. (previously presented) A respirator according to claim 2 further comprising

exhaust deflection means capable of preventing exhaled air from contacting the at least one

eyepiece.

5. (original) A respirator according to claim 4 wherein the exhaust deflection means

comprises a third sealing means that, in use, engages with the face of the user so as to form

ocular and oronasal cavities, the third sealing means being provided with means for

permitting gaseous flow from the oronasal cavity to the ocular cavity.

6. (previously presented) A respirator according to claim 1 further comprising a

valve assembly comprising a valve body having a valve assembly outlet and a valve

assembly inlet, and a valve cavity therebetween, a valve mechanism for permitting gaseous

flow through the valve assembly inlet into the valve cavity and to the valve assembly outlet,

a continuous purge outlet means connectable to an air pressure supply means, an air

deflection means spatially arranged in the valve cavity relative to the valve mechanism and

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the purge outlet means such that, on connection and activation of a suitable air pressure

supply means, air is emitted from the purge outlet means and is incident on the air deflection

means such that a curtain of air may be substantially maintained above the valve mechanism.

7. (previously presented) A respirator according to claim 1 wherein the respirator air

inlet is, in use, in gaseous communication with the first cavity, thus forming a first gaseous

pathway, a second air inlet is in gaseous communication with the air pressure supply means

which is capable, in use, of providing gas to the second cavity, thus forming a second

gaseous pathway, wherein the first and second air inlets are located in a common filter

connection means, and the filter connection means is connectable to a suitably adapted filter

such that in use the first and second gaseous pathways are mutually isolated so that

inhalation by the user does not substantially affect the pressure in the second gaseous

pathway.

8. (currently amended) A sealing piece for a respirator, the sealing piece comprising

first, second, and third portions, each of the first and second portions comprising a

substantially compliant material and having a respective sealing surface suitable for

engagement with the face of the user so as to define a substantially sealed cavity between

bounded by the sealing piece and the face of the user, the first and second portions being

mutually connected by and contacting the third portion suitable for attachment to the surface

of a respirator, the sealing piece further comprising a gas inlet for allowing, in use, the

supply of pressurised gas to the cavity, and wherein the first and second portions are so

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shaped having end portions that are inwardly curved toward one another such that, in use, the

application of a positive pressure in the cavity does not cause the seals to be broken.

9. (original) A sealing piece according to claim 8 wherein, in use, the application of

a positive pressure in the cavity causes at least one of the first and second sealing surfaces to

be urged into a more positive engagement with the face of the user.

10. (previously presented) A sealing piece according to claim 8 wherein the first and

second portions are J or U shaped in section.

11. (previously presented) A sealing piece according to claim 8 wherein at least one

of the first and second portions comprises a reverse reflex seal.

12. (currently amended) A respirator comprising:

a. a facepiece; and

b. a sealing piece comprising first, second, and third portions, each of the first

and second portions comprising a substantially compliant material and having a respective

sealing surface suitable for engagement with the face of the user so as to define a

substantially sealed cavity between bounded by the sealing piece and the face of the user, the

first and second portions being mutually connected by and contacting the third portion

suitable for attachment to the surface of the facepiece, the sealing piece further comprising a

gas inlet for allowing, in use, the supply of pressurised gas to the cavity, and wherein the first

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and second portions are so shaped having end portions that are inwardly curved toward one

another such that, in use, the application of a positive pressure in the cavity does not cause

the seals to be broken.

13. cancelled

14. (previously presented) A sealing piece according to claim 11 in which the first

portion comprises a reverse reflex seal and the second portion comprises a reflex seal.